

O. H. M. S.

We Gevald

Deputy Minister.

LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 132

BREAKFAST FOODS.

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BREAKFAST FOODS.

OTTAWA, March 25, 1907.

W. J. GERALD, Esq., Deputy Minister of Inland Revenue.

> Nov P. F. New Quel St. I Mon Otta King Toro Lone Man Briti

Sir—On the 22nd October last a collection of what are known as "Breakfast Foods was authorized by you and the samples were obtained in the open market by the loo inspectors in the month of November following. They have since been examined it this Laboratory, and the results are detailed in the table which accompanies this report, in which the names of the various brands, their vendors and manufacturers, and is a memorandum of the number of samples obtained in the value inspection districts:—

a Scotia																																			Sample
E. Islands					•	۰	۰	• •				٠				*	÷	٠	6	9 ,		0	0	• •	۰ ،		*								6
Brunswick			٠	•	٠			٠						9 (٠	٠			0		4	0 1				0			9	6 1		0	3
Hyacinthe		 					٠	0	9	٠					6		٠		,	4				1 0				0	0		e		,		10
		 																																	12
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55ton																																			8
11100								-																											10
ACTES TO THE TOTAL																																			0
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ish Columbia.													-				•				٠			۰		•		0				۰			0
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Total																																		-	
				*									*	* 1			٠																		99

The food inspectors were instructed to obtain as great a variety of these 'breakfast foods as possible, and perhaps some have been collected which do not properly belong to that class, and which do not much differ from the rolled oats or wheaten flours described in former Bulletins (see Nos. 98 and 127). The whole of the work connected with these 99 samples was carried out by Mr. J. G. A. Valin and is to be considered as having a bearing on some of the points referred to by Mr. McGill in his report of 10th December, 1902, published in Bulletin No. 84 on Cereal Breakfast Foods. The expression "Breakfast Foods" seems to be used for indicating that an addition of some sort has been made to the cereal used as a basis, or that the latter has received a certain amount of "preparation" or "cooking." Mr. McGill says that the claim of the manufacturers of the cooked or malted foods is that by the process to which they have been subjected the "insoluble starch is converted into soluble maltose and dextrine." The extent to which such alterations have been made seems to be best indicated by the percentages of alcoholic or aqueous extract as ascertained by Mr. Valin. The process followed by him is known as the Crysotile or Asbestos Fibre Method, and consists in distributing the fineground sample through such fibre contained in Macfarlane tubes, and subjecting these to drying and hot percolation which give the results detailed in the tabulated statement. The first in the columns of results contains the total proteids, being the nitrogen determined by the Kjeldahl-Gladding method multiplied by 6.25. The second is headed "moisture" and signifies loss at 100° C. The third column gives the loss to

petrolic ether and is equivalent to fat. The fourth column shows the loss which the sample experienced from hot percolation with alcohol of 92 per cent., which is capable of removing sugars as well as some soluble proteids. Column five gives the substances removed by warm water, after the alcohol treatment, which are chiefly dextrines or rinally present in the sample or derived from the starch in the "preparation" of the breakfast foods. The headings of the other columns explain themselves.

In the tabulated statement the results are given in the order of the various collection districts and as obtained by the food inspectors, but in the following arrangement I have placed the analyses together which belong to those foods of which more than one sample has been collected, and which seem therefore to have been in greatest demand. This tabulation also admits of indicating the average percentages of certain important constituents.

GRADE VIITS

			GRAI	PE NUTS.				
No. of Sample,	Proteids N. x 6/25.	Moisture.	Petrolic Ether Extract (Fat).	Hot Alcohol Extract (Sugars, &c.)	Warm Water Extract (Dextrines).	Crude Fibre.	Total Ash.	Starch ap proxima- tely by difference
28329 30202 25919 28190	13 12 10 94 11 73 11 67	7 00 4 72 5 76 5 00	0 76 0 40 0 40 0 0	12:20 14:96 16:48 15:68	30 20 31 84 27 76 27 84	1:80 1:70 0:85 1:00	1 60 1 06 1 26 1 42	33 32 34 38 35 76 37 39
Average	11.86	5:62	0.39	14.83	29:41	1.34	1.34	35.2
			PUFF	ED RICE.				
25914 25916	8:75 8:31	8:02 8:24	0.12	0.00	16°04 20°80	1:45 0.75	0°84 1°00	64:78 60:90
	8:53	8.13	0.06		18:42			
			QUAF	KER RICE.				
32302 30204 30230	10:94 11:35 12:37	7 80 9 20 8 80	0°12 0°40 0°00	0.00 0.00 0.00	22:96 17:12: 14:80	0:70 0:60 0:75	0 64 6 40 0 20	56:84 61:33 63:08
	11 55	8:60	0-04		18:29			
			FC	G-O-SEE.				
582 27201 31624 29394 31018	12 06 10 93 13 25 13 81 12 25	8·16 8·40 7·48 6·92 8·04	0:20 0:44 0:52 1:44 0:00	1 92 0 84 0 44 0 0 2 20	11 80 14 20 14 84 12 80 12 48 13 12	2 50 2 70 1 96 2 15 1 70	1 82 1 92 1 49 2 28 1 88	61 54 60 57 60 17 60 60 61 45
	,		CANAL	A FLAKES				•
31615 29393 31015 31024 30220 25917	11 87 13 12 12 56 10 06 13 12 11 37	7:20 7:84 7:84 7:72 8:56 7:04	0°20 6°40 1°06 1°06 0°32 0°32	2: 8 4:36 4:32 2:68 2:92 1:92	11 · 52 11 · 96 13 · 36 12 · 20 11 · 40 13 · 44	2:25 2:35 2:40 2:25 1 60 1 50	2:56 1:80 2:56 1:96 1:92 2:00	61 52 58 17 55 96 62 13 60 16 62 41
	12.01	7.70	0.51	3 18	12:31			

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, 1907.

fast Foods' by the Good kamined in es this returers, and e following ection dis-

99 breakfast rly belong flours deconnected

sidered as t of 10th he expresie sort has in amount cturers of jected the t to which s of alco-

by him is the fineing these ed statehe nitrosecond is

loss to

			MAL	TA-VITA.				
No, of Sample.	Proteids N.×6°25.	Moisture.	Petrolic Ether Extract (Fat).	Hot Alcohol Extract (Sugar, &c.)	Warm Water Extract (Dextrines).	Crude Fibre.	Total Ash.	Starch ap proxima tely by difference
28326 24291 26058 591 31618 30206 25911	11 36 12 25 13 12 13 62 14 00 11 81 10 50	9 08 5 75 7 08 7 60 7 16 8 52 7 44	0 68 1 20 0 88 0 40 0 40 0 88 0 00	4 16 4 20 2 80 3 52 2 64 3 08 1 80	11 08 11 68 11 40 11 92 11 28 12 84 14 40	2 60 2 60 2 45 2 35 2 00 2 00 1 65	2 28 2 28 2 12 1 58 1 60 1 76 1 62	58:76 60:06 60:17 59:01 60:93 59:11 62:56
	12 38	7:52	0.03	3 17	12:08			
			ORAN	GE MEAT.				
24294 26057 575 31614 31022 28189	11 87 12 50 13 56 13 62 16 94 41 37	9 76 8 12 8 96 6 92 7 52 8 00	0 56 0 60 0 32 0 48 0 24 0 28	2 08 3 00 2 76 4 20 5 60 7 04	9 92 11 88 11 80 12 84 11 28 12 16	2 99 2 30 2 80 2 35 2 35 1 50	1:36 1:92 1:80 2:00 2:28 1:80	61:56 59:66 58:06 57:56 59:71 57:86
				VIM.				
577 31613	11 87 13 56 12 71	9 04 7 60 8 32	0 56 0 08 0 32	3:12 3:96 3:54	10:56 11:92 11:24	2:30 2:35	1 '52 2 00	61 '08 58 '58
			BLA	NCO CERO.			-	
28331	15.75	8:44	0.80	2.68	10:48	3.30	2.84	55:71
571	16:62	8:12	0.88	2 88	11 68	3.20	2.48	53 9
		1	F	ORCE.				
27202 27214 26055 31623 30207 32009	10 50 10 12 13 43 13 38 10 94 11 37	7 84 8 52 8 40 8 00 8 44 8 48 8 28	0 52 0 76 1 40 0 84 0 96 0 48	2·28 2·64 2·72 2·76 0·84 3·72	9 88 8 85 10 24 11 68 11 64 11 28	2 55 2 85 2 70 2 50 2 48 1 60	1 66 2 88 1 64 2 08 1 52 2 08	64:77 63:95 59:47 58:76 63:18 60:99
			G	USTO.				
27203 24290 26056 26061 576 31617 32303	10°56 12°93 12°94 12°93 11°37 13°37 13°25 10°50	8:03 6:80 8:16 8:56 8:92 8:56 6:56 7:9:	1 84 1 36 1 80 1 60 1 44 0 40 1 12 6 84	2:84 3:36 3:16 0:92 1:28 2:40 3:44 2:00	9 40 8 40 7 36 11 36 10 52 11 20 12 00 10 72	2:20 3:50 1:80 2:00 2:40 2:00 3:30 1:65	2:10 1:80 1:80 1:60 1:22 1:60 2:04 1:42	62 98 61 85 62 98 61 03 62 85 60 47 58 29 64 91
	12.23	7 95	1 30	2 42	10.12		- 24	

MALT BREAKFAST FOOD.

o. of Sample.	Proteids N. × 6 25.	Moisture.	Petrolic Ether Extract. (Fat).	Hot Alcohol Extract (Sugara, &c.)	Warm Water Extract (Dextrines).	Crude Fibre.	Total Ash.	arch approximately by difference.
27207 580 31621 31020 30242 30247 25920	11:87 14:43 15:31 14:00 12:37 11:37 11:73	6:60 8:08 6:76 7:60 7:28 7:68 7:24	1 · 20 1 · 08 0 · 60 0 · 60 0 · 52 0 · 08 0 · 00	10 08 6 56 6 72 6 96 7 96 6 96 8 08	7 32 8 72 10 08 9 44 9 80 9 24 8 72	1 30 1 65 1 10 1 65 1 20 1 50 0 50	1 16 1 24 1 24 0 82 1 06 1 48 1 64	60 47 58 24 58 19 58 93 59 81 61 69 62 09
	13 01	7:46	0.28	7.61	9.05			
<i>y</i> -5-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-6-			PETIT J	OHN'S B. 1	F.			-
541 25918	12:56 9:62	9:76 7:68	0:60 0.48	0192 2140	7·32 7·72	2:45 1:25	1:60 1:42	64:79 59:43
	11.09	8:72	0.24	1.66	7:52			
		R	ALSTON	HEALTH B	. F.	1.62	1.51	62-1
31622 28196	15·87 13·25	9:52 9:44	1.00	2·80 2·40	7:17 6:00	1:45 1:25	1:36	60°83 66°38
	14:56	9:48	0.20	2.60	6:58			
			CREAM	OF WHEA	T.		-	1
27215 578 31620 20392	11 · 87 12 · 25 13 · 8 · 14 · 00 12 · 99	9·60 9·84 9·44 9·52 9·60	0·48 0·00 0·32 0·76	1 92 0 00 0 00 0 00 0 00 0 48	2:08 6:44 7:76 7:20 5:87	0:60 0:40 0:50 0:45	0°80 6°60 0°40 0°32	72 6 70 47 67 75 67 71
			THE KI	NG'S FOOL).			
24293 579	13·12 12·81	8:88 8:88	1:00	3:32 1:68	5:44 5:92	1·80 2·00	1·98 1·84	65:34 65:
	12.96	8.44	0.98	2:50	5.68			
		[QUAKI	ER OATS.	1	1	1	1
26059 26062 29391 31019 25915	15 18 16 18 16 87 13 12 14 00	7:88 8:04 7:48 7:60 7:65	4 · 84 4 · 76 6 · 16 5 · 08 5 · 20	3·48 3·60 2·16 3·44 1·80	4·70 4·80 6·08 5·48 5·16	1 85 2 3e 1 70 2 40 1 95	1:68 1:56 1:74 1:80 1:28	59·39 58·76 57·81 61·08 62·96
							1 02	00 00
	BRI	AKFAST	FOOD-1	NO TRADE	MARK GIV	EN.		1
26043 26046 26054	18:81 12:94 12:85	9·68 9·32 9·40	0:72 0:84 0:76	1 · 60 2 · 24 1 · 44	4:72 4:36 3:96	1:50 1:85 2:20	1:44 1:60	66 · 67 67 · 01 67 · 79
	13:20	9:46	0.77	1.76	4:34			

It is reasonable to assume that the greater the percentage of aqueous extract (after alcohol) found in the sample the greater is the extent to which the starch has been changed. In the following statement all the different brands collected have been arranged according to the amount of this percentage beginning with the highest.

No. of Sample.	Brand,	Proteids,	Fat.	Alcohol Extract.	Aqueon Extract.
Average of 4 samples	Gram Nuta	11 86	0 39	5.4.4112	
28195		9 17	0 64	14 83	29 41
28188	Malta Ceres	14 00		10 40	20 00
Average of 2.	Puffed Rice.	8 53	0.24	6148	18-72
3	. Quaker Rice.	11:55	0.04	0.00	18:42
31023	Toasted Corn Flakes	7.88		0.00	18 29
31619	Granose Flakes.		0.64	5 00	17:48
30245	Norka	11 00	0 16	4:56	13 92
30244	Apitezo	14 00	2:16	6:16	13 68
29400	Zont		0.00	3.25	13 44
Average of 5.	Egg-O See		0 56	1:40	13 44
0	Canada Flakes	12 46	0.95	1:08	13 22
11 7	Malta Vita.	12 01	0.24	3.18	12:31
6	Orange Meat	12 38	0 63	8:17	12:08
. 2	View	12 31	0.41	4:11	11:64
12		12 71	0.32	3 54	11:24
6,	Phanes Cept	16 18	0:84	2.88	11:08
31616			0.83	2 49	10.60
6.0		13 12	1 04	2 32	10.50
verage of 8.			1.30	2.42	10-12
. 2	Paris I bar David D	13 01	0.28	7:61	31:05
30205	Petit John's Break, F	11 69	0.24	1.66	7:52
24292		10 50	0.16	4:00	7 28
	Shredded Wheat Buckwheat Flour	12:68	1 20	0.00	7 08
Verage of 2	Duckwheat riour	7:31	0.40	2.56	6188
	Ralstons.	14.56	0.20	2:60	6:58
		8:31	0.00	0.00	6:40
*********	. Cooks Flaked Rice	11:62	0.00	0.00	6.24
		16 87	5164	1:96	5.88
verage of 4		19-99	0.39	0148	5187
92101	The King's Food	12-96	0.98	2:50	5.68
30203	Man Hard B. F.	11.06	0.00	0.16	5 56
30203		10:50	0 36	0.00	5:48
20100	Quaker Oats	15:27	5:21	2.89	5:24
26060	Hecker's Homing.	8.75	0.81	0:80	5:00
		16:18	4.32	3 20	5:00
31021 30248	Quaker Corn Meal	8:12	0.48	1:60	4:88
		11:37	0.00	0.00	4 56
26063	Pilson's Oats	16:00	5 72	3 28	4:52
	Various B. F	13 20	0.77	1 76	4:34
24295	Gritz	14:68	1.96	3:36	3:76
30241	Hornby Ontmerl.	16 62	6:00	2.20	1:42

If reference is made to Bulletin No. 127, it will be found that the percentage of aqueous extract (after alcohol) contained in the 12 samples of rolled oats there described, which have had no previous cooking, averages 2·12 and never exceeds 3·00. It would therefore seem to be reasonable to conclude that those breakfast foods prepared from oatmeal which yield more than 3 per cent aqueous extract have experienced "cooking" to some extent. It does not appear, however, that many of these breakfast food samples have been prepared from oats because only the following contain such an amount of fat as would indicate that origin:—

-	Proteids.	Fat.	Alcohol extract.	Aqueous extract.
Beaver Oats Quaker Oats Saxon Oats Pilsun's Oats	p. c.	p. c.	p. c.	p. c.
	16 87	5 64	1 96	5 88
	15 27	5 21	2 89	5 24
	16 18	4 32	3 20	5 00
	16 00	5 72	3 28	4 52

It will be o' rerved that these samples have all yielded more than 3 p.c. a extract, and it may be inferred that these foods have experienced an amount oparation" corresponding to the percentage stated.

In the following table will be found the average analysis of 12 samples or an extractional described in Bulletin No. 127 as well as of 2 samples of porridge made from the same article the one (I) without addition and the other (II) with an appropriate quantity of common salt:—

	Total proteids.	Moisture.	Fat.	Alcohol extract.	Water extract.	Crude Fibre.	Total	Starch approximately and by difference.
Rolled oats (average) Porridge I . Duplicate . Porridge II . Duplicate	12:56 3:00 2:88 3:00 3:16	p. e. 8:71 83:98 83:11 82:96 82:97	p. c. 4 74 0 09 0 12 0 20 0 18	p. c. 3 77 0 54 0 07 1 14 1 05	p. c. 2:12 1:22 1:31 2:38 2:12	p. c. 1 64 0 22 0 26 0 20 0 20	p. c. 1 45 9 65 0 62 0 92 0 96	65:01 10:80 11:62 9:20 9:18

When these figures are calculated on the dry substance the results are as follows:

	Total proteids.	Moisture.	f	Alcohoi extract.	Water extract.	Crude Fibre.	Total Ash.	Starch approximatively and by difference.
Rolled Oats Porridge I duplicate dup	13.76 18.72 17.04 17.60 18.55	p. c.	p. c. 5 19 0 55 0 70 1 17 1 05	p. e. 4 13 0 34 0 37 6 69 6 18	p. c. 2 32 7 62 7 78 13 97 13 50	p. c. 1 '80 1 '37 1 '52 1 '18 1 '18	p. c. 1 · 59 3 · 90 3 · 81 5 · 39 5 · 63	71 21 67 41 68 79 53 98 53 88

If the analyses of the four varieties of prepared oats above mentioned are calculated on their dry substance the resulting figures may be compared with those obtained from the analyses of the porridge samples. None of them however show more than 6.37 per cent. of aqueous extract which does not amount to one-half of that obtained when porridge is prepared in the old fashioned way. It is worthy of remark that the figures here recorded show that cooking oatmeal without salt is a very ineffective way of "predigesting" the starch which it contains. Porridge No. II, cooked with salt, contains twice the amount of soluble dextrines produced in preparing No. I. Another fact which is brought out by these tests is that the fat seems to disappear during the cooking. It is very probable, however, that it enters into some sort of combination with the proteids, such as renders it incapable of removal by the usual solvents. Dr. Chamberlain of Washington has

found that the fat of wheaten flour in the process of baking bread also enters into com-

bination with the proteids.

For by far the greater number of the samples described in the tabulated statement it is claimed that they are made from wheat and judged by their percentages of aqueous extract, most of them have experienced such amounts of preparation as to make them, in different degrees, more easily digested than wheaten flour. Samples of the latter frequently show as much as 4 per cent of aqueous extract after alcohol, but it would seem unreasonable to look upon any foods from wheat as specially prepared unless yielding much more than that percentage. In considering the question as to what degree of "cooking" a "prepared breakfast food" should have undergone it is scarcely possible to avoid enquiring as to what amount of change wheaten flour undergoes in baking. To ascertain this the following analyses were made by Mr. Valin (in exactly the same manner as all the examinations above described), of dried bread crumb and dried bread crust. The former (I) in drying lost 31.96 per cent of its weight and the latter (II) 50.82 per cent:—

Bread.	Total proteids.	Moisture.	P. E. extract.	Alcohol extract.	Water extract.	Crude Fibre.	Total Ash.	Starch by difference.
I) Crumb	12 67	2 56	0:00	0.00	16 32	0.70	P.00	66.69
Duplicate	12:56	2:08	0.00	0.00	15:64	0.60	1.16	67:96
II) Crust	12:75	0:36	0:40	3:56	13:20	0.75	1:16	67:82
Duplicate	12:81	0.48	0:40	4:00	12:88	0.70	1:00	67:83

When these figures are calculated on the dry substance they show that bread contains from 13 to 16.75 per cent of substances soluble in water after alcohol, an amount which much exceeds that contained in most of the breakfast foods described in the tabulated statement. Assuming dry bread to contain an average of 15 per cent aqueous extract, and the moisture contained in breakfast foods to be about 8 per cent, it follows that, to be as well "prepared" as bread, the foods ought to show 13.8 per cent of aqueous extract. This, as shown in the figures given above, is the case with

only about twenty per cent. of the brands collected.

For a good many of the samples described it is claimed that an addition to them of malt extract or of sugars has been made. The extent of this addition is roughly shown in the percentage of hot alcohol extract. But in the preparations from wheat a certain amount of this percentage may represent gliadin. The amount of this and other substances usually removed from wheaten flour by hot alcohol percolation is about five per cent and therefore it would be unsafe to regard those samples containing less than that as having had any malt or saccharine addition. It was not thought necessary to estimate the sugars present or determine those produced in cooking any of the samples by the action of the malt diastase which they might contain. The latter operation seems to lie beyond the scope of a food analysis, and besides, while "cooking is recommended" for some of the foods, in others it is stated to be unnecessary. An approximate estimation of the residual or insoluble starch has been made from which it will be seen that the "predigestion" claimed for many of the foods is not by any means complete, and that the u-e of the saliva and gastric juice cannot yet be dispensed with.

It has not been found advisable to introduce into the description of the various brands described all the claims made for them, some of which remind one of patent medicine advertising. But the essential features of the claims made are placed ou record, and it is impossible to avoid remarking on the different degrees of subdivision effected in their treatment. That varies from "rolling" to "flaking" of a very complete character in which the grains are brought into the condition of thin, semitranslucent laminae. It is quite possible that this thinning out increases the digestibility but it is a question as to whether this change is worth the extra cost. It is not easy to get at

the price of these articles per pound owing to the indefinite and varying weights contained in the packages. But it seems to amount to from 5 to 23 cents per lb. Since oatmeal or wheaten flour is retailed at from 3 to 4 cents, it becomes a question as to

how far the extra price is justified.

With reference to the question of adulteration it does not appear that any of the samples referred to in this report can be challenged with effect under any of the provisions of the Act. The names under which they are sold are too fanciful and indefinite and do not admit of being compared with their composition. Even in the case of those foods which claim to be "malted," and may not contain diastase it is doubtful as to whether they could be challenged in the absence of a standard.

I have the honour to be, sin, Your obedient servant,

> THOMAS MACFARLANE, Chief Analyst

RESULTS OF AN INSPECTION OF A COLLECTION

DISTRICT OF NOVA SCOTIA

				Cost		
Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Notice and Address Manufacturer or Furnisher.	From Inspector's Report.
1906					1	
Nov.	5 Egg O(Se),	27201	J. Frank Crowe, Ha-1 htax, N.S	. 1b	10 Egg-O-See Cereal Co., Quincy, Ill., U.S.A.	See; made from choicest wheat; drawn from 1 lb, pack-
**	5 Breakfast Food Force.	27202	Bauld Bros. & Co., 1 Habfax, N.S.		13 Force Food Co., Buffalo, N.Y.	age. Labelled 'the whole of wheat force combined with barley malt.'
14	5 Gusto	27200	John Tohm & Co., 1 Halifax, N.S.		10 The Hoco Mills Co., Buffalo, N.Y.	
	5 Malt Breakfast Food,		W. C. Anderson, 2 George St., Hali fax, N.S.	! 11	18 The Malted Cereal Co., Burlington, Vt., U.S.A.	choicest whole wheat combined with the best barley malt: rich in malt gluten
,	7 Force Break- fast Food	27214	S. L. Cross, Kent 1 ville, N.S.	18	15 Force Food Co., Buffalo, N.Y.	natural food for creating
11	8 Cream of Wheat.	27215	Wentworth Stores, 2 Windsor, N.S.	: n	20 Cream of Wheat Co., Minneapolis, Min.	power, &c.' Sold as 'cream of wheat.'
				DISTR	ICT OF PRINCE EDWA	RD ISLAND
			-			-

Nov. 5 Malta Vita 28326 Brace & M.c.K.a.y., 3 pkgs. 45 Malta Vita Pure Food Labelled 'concentrated malted food; ready to eat. Pure pre-digested, thoroughly cooked, prepared from selected wheat, barrley malt and other ingredi-

6 Grape Nuts. 28329 Geo, Rackham, Char 3 ... 45 Postum Cered Co., Labelled 'a food latte own Battle Creek, Mich fully cooked; pre-digested dextrose and grape sugar; made by special treatment from wheat and barley.'

OF SAMPLES OF BREAKFAST FOODS.

R. J. WAUGH, INSPECTOR.

RESULTS OF ANALYSIS.

Additional Observations and Quotations from Label.	Total Proteids. N × 6 25.	Moisture.	Petrolic Ether Extract (Fat).	Alcohol Extract. (Sugars, &c.)	Water Extract. (Dextrines).	Crude Fibre.	Total Ash	Starch approxi- nately by dif- ference.	Remarks by Analyst.
	p.c.	p.e.	p.e.	p.c.	p.c.	p.c.	p.c.	p.c.	
In flakes; not sweet tasted.	10 93	8:40	0.44	0.84	14:20	2:70	1192	60:57	27201 Apparently wheat; grapules much broken.
51 51	10 50	7:84	0 52	2 28	9:88	2:55	1 66	64:77	27202
	10:56	8:08	1.84	2184	9:40	2 20	2.10	62 98	27203 Starch granules all
Granular; not sweet tasted.	11 87	6:60	1.20	10 08	7 32	1 30	1.16	60:47	27207 Wheat or barley starch; probably a mixture.
Flaked : not sweet tasted.	10.12	8:52	0.76	2 64	8:88	2 85	2 28	63 95	27214 Starch granules much broken; apparently wheat,
Finely granular	11:87	9 60	0.48	1 92	2:08	0.60	0.80	72165	27215 Wheat starch.
T. MOORE, INSPI	ECTOR.					-			
Flaked; not sweet tasted.	11:36	9 08	0:68	4 16	11:08	2:60	2:28	58:76	28326 Starch granules much broken; wheat or barley.

Coarsely granular; 13 12 7:00, 0:76 12:20 30:20 1:80: 1:60 33 32 28329 Wheat or barley; prosweetish tasted; hown coloured.

RESULTS OF AN INSPECTION OF A COLLECTION

DISTRICT OF PRINCE EDWARD ISLAND-

-		•		John Market State of the State	
			Cos	st.	
	Nature of Sample.	Name and Address of Vendor.	Quantity.	Name and Address of Manufacturer or Inspector's Report.	_
19	96.				
Nov	. 6 Blanco-Cero ,	. 28331 Sanderson & Co.,, Charlottetown.	3 ,, ,,	St. Louis, Mo. Blance Cero cooked and ready to serve scientifically prepared from whole grain.	d ; n
				DISTRICT OF NEW BRUNSWICK-	
Nov.	. 15 Cust	. 24290 Hall & Fair-reather, 3 719 Ward St., St., John, N.B.	3 pkgs .	25 The Hogo Mills, Buf-Labelled Gusto; ready for the table. Crisp, delicious wheat	3
"		24291 The Two Barker s, 3 Ltd., 500 Princess St., St. John, N. B.		Malta Vita Pure Food Labelled 'the Co., Battle Creek, Mich. food.' Labelled 'the perfect food; guaranteed absolutely pure concentrated	
16	w non-w near	John, N.B.		45 Canadian Shredded Labelled shred- Wheat Co., Ltd., Niaded wheat. gara Falls, Ont. Patented May	
**	19 The King's Food.	24293 W. F. Hatheway Co., 3 Ltd., 17-18 South Wharf, St. John, N. B.		75 The Robert Greig Co., Labelled 'The King's Food. Made in Canada. I deal	
		24294 McPhetson Bros., 181 3 Union St., St., John, N.B.		wheat food, &c Co., Ltd., Kingston, Ont. Wheat food, &c Wheat foo	
•	20 Gritz	24205 W. F. Hatheway Co., 3 Ltd., 17-18 South Wharf, St. John, N.B.	17	35 Vendors. Trade mark 'Gritz.' This article of food is ahead of oat- meal.	
_		_		DISTRICT OF QUEBEC-	
Nov.	12 Breakfast Food	26043 François Bourrett, 2 143 St. Paul, Que.	2 lbs.	15 N. Rioux et Cie	
ų.		20046 Ozias Lacroix, 19 St., 2 Joseph, Que.		15 Thomas Davidson, Que	
,	13	26054 L. N. Bergeron, 20, 1 Couronne St., Que.	l 11	30 Not known	

OF SAMPLES OF BREAKFAST FOODS-Continued.

T. MOORE, INSPECTOR-Continued.

			Resul	TS OF	Analy	818.		;		
Additional Observations and Quotations from Label.	Total Proteids N / 6 25. Moisture.		Petrolic Fther Extract (Fat).	Alcohol Extract. (Sugars, &c.)	Water Extract. (Detxtrines).	Crude Fibre.	Total Ash.	Starch appoxi- mately by fere ce.	No. of Sample.	Remarks by Analyst (Microscopical Examination).
	р. с.	р, э,	n. e.	р. с.	p. c.	p. c.	p. c.	р. с.		
Contents of 1 package, weigh 1 lb.	15.75	8:44	t 180	2 68	10:48	3.30	2 84	55:71	28331	Wheat storeh
J. C. FERGUSON,	INSP	ECTOI	R.							1
Contents of package weigh 19 conces.	12.93	6.80	1:36	3.36	8:40	3:50	1 ·69	61.85	24290	Wheat starch.
Contents of package weigh 12½ oz.	12 25	5 75	1:20	4 · 20	11.68	2:60	2 28	60°04°	24291	Starch granules and broken; wheat o barley.
Food in 1 package weighs 13½ oz.	12 68	8.00	1.20	0.00	7:08	2 76	1 80	66:54	2429	2 Wheat starch.
Rolled; made from selected Canadian wheat. 1 package contains 3 lbs. 6 oz.	1	8 00	1:00	3:32	5:44	1:80	2.98	65:34	2429	19
One package contains 19 oz.	11 87	9.76	0.56	2 08	9-9:	2 90	. 36	61 55	2429	4 Apparently whea starch granules much broker.
	14 68	9:84	1.90	3·36	3:76	1 25	1.52	63 63	2429	5 Wheat starch; p sinly barley.
E. BÉLAND, INS	PECT	 OR.			1]		
Fine grained but not so fine as flour some grains yellow ish coloured.	*	9:68	0.75	2 1:00	1 4:72	1:50	1.30	66.67		3 Wheat starch; possible barley.
In flakes	12 9	4 9:32	0.8	2 2	4 36	1.83	1.4	1. 67:01	2604	16 11 11
Rolled	12:8	5 9:40	0.70	5 1:4	1 3.96	2 2	1.60	67 75	2603	54: 0 0

RESULTS OF AN INSPECTION OF A COLLECTION DISTRICT OF QUEBEC—

									(4)ST.				
	Date of Collection.		Nature (f ample,	No. of Sample.	Name	· and Ad f Vendor	dress		Quantity.	Cents.	Manuf Fur	nd Address of acturer or nisher.	In	From pector's teport.
19	06,									,			1	
Nov	. 14	Force	·	2605	5 George du F	Laroch	el, 64 Que,	2	lbя.	15	Turcotte e	t frère, Que	• • • •	
11	14 (14 (Justo Drang	ge Meat	26050 26057) 			2 2	11	15 15		11	1:::	*** ***
f+	14 3	Malta	Vita .	26058		t e		2	- 11	15	1			
PI PI	14.5	$98\lambda m$	(Jata	. 20059 . 26060 . 26061	H. St.	Cyr, '9: StQue.) du	2 2 2	11 12 11	10 : 15 15	Whitehead Que.	& Turner	7	********
11	14 C 14 F	piake ilson	r Oats. 's Oats	. 26062 . 26063		14		2	*1	10 25	. н	11 (1		
_									~		DISTRICT	OF ST.	HYACI	NTHE—
Nov.							ens., 1	- l	lb,		Frontenac (Kingston,	Ont.	prepar ery perfect perfect ed an	ntifically red. Ev- article is tly cook- d easily
				576	H. Pare Que,	é, Grau	iby, 1	•	H	10	The Hoco I falo, N. Y	Mills, Buf-	Called	ed." "Crisp us food,"
I t		m			,	,,,,,,	;		OZA.	10]	Malta Vita Co., Toron	Pure Food to, Ont.	Marked good whole cook baked to ser	"The food; wheat, ed and; ready ve with roold
,.	9 ()	V hea	m of	378 2	A. H. M. gog. Qu	doore, A	la- ₂₉		** - !	20 (Cream of W Minneapol	heat Co., is, Minn.	It is sta "Cre Wheat only or most and d breakfi but in a contain large	ted that a m of is not se of the delicate lelicious ast foods addition

OF SAMPLES OF BREAKFAST FOODS—Continues.

E. BELAND, INSPECTOR--Continued.

			Rest	LTS OF	ANAL	ens.			1	
Additional Observations and Quotations from Label.	Total Proteids.	Moisture.	Extract (Fat).	Alcohol Extract. (Sugars, &c.)	(Dextrines).	Crude Fibre.	Total Ash. Starch upproxi-	mately by dif-		Remarks by Analyst. Microscopical Examination).
	p. c.	p. c.	р. с.	p. c.	р. с.	р. с.	p. c. P	c.	,	
n flakes	13 43	8 40	1:40	2:72	10:24	2:70	1		1	Apparently wheat starch; granules much broken.
***************************************	12:94 12:50	8:16 8:12	1·80° 0·60	3:16 3:00	7136 11188	1·80 2·30			26056 26057,	Starch granules much broken; apparently wheat starch.
19	13 12	7:08	0:88	2.80	11:40	2:45	2:12: 6	-	20058	Starch granules much broken; wheat for barley.
Flaked or rolled	16:18	7:88 8:04	4:84 4:32	3:48 3:20	4:70 5:00	1:85 9:90	1:68 5 1:82 5	9:39i 8:54	26059 26060	Starch, oat. Oat starch.
in flakes	16 18 12 93	8156	1.60		11:36	2:00	1 60 6	1 03	26061	Starch granules much broken; probably wheat starch.
Rolled or flaked	16 18 16 00	8:04 7:60	4:76 5:72	3:60 3:28	4:80 4:52	2:30 1:85	1 56 5 1 72 5	8·76 9·31	26062 16063	Oat starch.
J. C. ROULEAU,	INSP)		0·32	2 76	11:80	2:80	1.80	58:00	575	Starch granules muc broken; apparentl wheat starch
		1								
	11 · 37	8 92	1 44	1.28	10.52	2:40	1.22	62 85		Starch granules muc broken; probabl wheat starch.
In flakes	., 11-87	9:04	0.56	3 12	10:56	2 30	1.52	61 · 03	577	7 Starch granules much broken; apparent wheat starch.
			1	1			E I			

RESULTS OF AN INSPECTION OF A COLLECTION

DISTRICT OF ST. HYACINTHE

						Cos	T.		
	Nature of Sample,	No. of Sample.	Name and A of Vend	Addresi lor,	H .	Quantity.	Cents.	Name and Address of Manufacturer or Furnisher,	From Inspector's Report.
						<u>~</u> _	2		1
190	DG,							•	+
"	9 King's Food	579 <u>I</u>	. H. Olivier brooke, Quo	r, Shei e,	r- 2월	lbs.	25	The Robert Greig Co Ltd., Toronto.	ideal wheat food. Choicest product from
	9 Malt Breakfast Food,	580 F	. A. Bourque Sherbrooke	e et Cie , Que,	·, 2	pkgs.	30	The Malted Cereal Co. Burlington, Vt.	carefully se- lected Cana- dian wheat." Called "The or- iginal and standard malt wheat cereal."
	14 Blanco Cero	571 A	Lamothe, S	t Ours	17	Otto	10	O.D. Di.	
**	15 Petit John's Breakfast Food.	581 ()	Que. Lambert, Ib Que.		- 1	11		C. F. Blanke & Co., St Louis, The American Cerea	
11	17 Egg-()-See	582 T	hos. Héber Hyacinthe,	t, St. Que.	. 13	11	13	Co., Chicago, 111. Battle Creek Breakfast Food Co., Quincy, 111.	
**	17 Malta Vita	591 E.	Benoit, St.	. Hya-	- 14	**	10	Malta Vita Pure Food Co., Battle Creek, Mich,	
								DISTRICT OF	MONTREAL-
Nov.	7 Vini	316 13 T)	ne S. Carsle Ltd., Montr	y Co., eal.	2 pl	gs.	20	Malta Vita Pure Food Co.	
81	7 Orange Meat .	31614	"	4.9	L .		15	Frontenac Cereal Co., Kingston, Ont.	Package weighed
19	7 Canada Flakes		01	**	1	1	15	Peterboro', Cereal Co., Peterboro', Ont.	Package weighed 11 lbs., made from Manitoba
69	7 Swiss Food.	31616	11	31	1 .	!	15	P. McIntosh & Son, Toronto.	
19	7 Gueto	(owe, McInt Co., Youville Montreal,	yre & Place,	1 0		08:	Pawnee Cereal Co., Cedar Rapids, Iowa.	egelib. A toy
M	7 Malta Vita . 3	31618	ee	F9	1 11		08	Malta Vita Pure Food Co., Battle Creek, Mich.	for children in each package. Weight of package. Weight of package 14 ozs. "Combines the well known food values of wheat and the medicinal values of malt."

OF SAMPLES OF BREAKFAST FOODS-Continued.

J. C. ROULEAU, INSPECTOR- Continued.

			Restr	TS OF	ANALY	1418.				
Additional Observations and Quotations from Label.	Proteids N . 6.25.	Moisture.	Petrolic Ether Extract (Fat).	Alcohol Extract. (Sugars, &c.)	Water Extract. (Dextrines).	Crude Fibre.	Fotal Ash.	Starch approxi- mately by dif- ference.	No. of Sample.	Remarks by Analyst (Microscopical Examination).
			jah4	4				002		**
	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	р. с.	р. с.		
	12.81	8:88	0.96	1.68	5.92	2 00	1 84	65.91	579	Wheat starch.
said to be wheat com- bined with Malt- diastase. Recom- mended to "cook thoroughly." One package contains 13	14 43	8.08	1:08	6 56	8.72	1.65	1 · 24	58 24	580	Wheat or barle starch; probably mixture of both.
OZS.	16:62	8 12	0:88	3.08	11.68	3.50	9.49	53 94	571	Wheat starch.
	12.56	9.76	0.60	0.92	7 32	2.45		64:79		
	12 00	0 10	0 00	0 02	1 04	2 40	1 00	04 10	901	Wheat or barley; probably wheat.
	12.06	8.16	0.20		11:80	2.50	1:82	1		Starch granules muc broken; apparentl wheat starch.
	13 62	7:60	0.40	3192	11 92	2.35	1:58	59:01		Wheat or baile starch; granule much broken.
J. J. COSTIGAN, 1	NSPE	CTOR								
Claked; "whole wheat steamed, cooked and baked." "Ready to serve."	13 56	7:60	0.08	3.96	11.92	2 35	2.00	58 53	3 1613	Starch granules muc broken; apparentl wheat starch.
Claked; requires no cooking. "Ready to serve."		6.92	0.48	4:20	12 84	2 35	2:00	57 : 59	31614	97 97
May be eaten in any condition.	11.87	7 20	0.20	2.88	11 52	2.25	2.56	61.52	31615	14 9f
cooked "but never- theless cooking for 10 or 12 minutes re-	13.12	9:20	1.04	2 32	10.50	1.80	1.44	60.58	31616	Wheat starch.
commended. Wheat flakes." "Ready to serve."	13:37	8.96	0.40	2.40	11 · 20	2.00	1.60	60 47	31617	Starch granules muc broken; apparent wheat starch.
'laked; "Concentrated, malted thoroughly, cooked, predigested and always ready."	14.00	7.16	0.40	2.64	11 28	2.00	1:60	60.92	31618	Wheat or barley stard

RESULTS OF AN INSPECTION OF A COLLECTION OF

DISTRICT OF MONTREAL-

		•							
					(L*com	т.		
Date of Collection,	Nature of Sample.	Na Na	me and Add of Vendor.			÷		Name and Address of Manufacturer or Furnisher.	From Inspector - Report.
-		Ž.	Alexander -		-	(Manana)			
15006									
Nov.	7 Granose Flakes	31619	•	1		,		08 Battle Creek Health Food Co.	cy. London, Ont. Weight of
	7 Cream of Wheat.	31620		. 1	1 ,	,		16 Cream of Wheat Co.	package 1 lb. Weight of pick age 2 lbs. "Made from Hard Spring Wheat."
1	7 Malt Breakfast Food.	77	uillet & t TUniversity Iontreal.	inay, 1 St.,	1 -	и.		20:Malted Cereal Co., Bur lington, Vt.	Weight of package 2 lbs. The whole being of the finest gluten wheat of the North-west.
**	7 Ralston Health Breakfast Food,		9	1	1 -	•1		20 Ralston Purina Co., St. Louis, Mo.	
11		4	Campbell & 2 Victoria Iontreal.	Co., 1 St.,	1	11		13'Force Food Co	Weight 1 lb. A simple prepar- ation of whole wheat and bar- ley malt.
	7 Egg-O See	31624	ч	0	4			13 Manufactured at Quincy, Ill.	Weight 1 lb. A imple preparation of whole wheat and bar-
-									ley malt.
								DISTRICT	OF OTTAWA-
								~	-
Nov	14 Quaker Oats		orge Thoma leorge St., O					30 American Cereal Co., Peterboro', Ont.	Marked "Quaker rolled white oats. Quaker brand. Made in Canada."
	14 Cream of Wheat.	f 29392		[3	ii		60 Cream of Wheat Co., Winneapolis Winn	Said to be "made! from cheasest selected hard."
11	14 Canada Flake	s 29393	"	13	3	11		45 Peterboro' Cereal Co	spring wheat." Made in Canada from Manitoba wheat.
19	14 hgg O-See	. 29394	11		3	**	• • .	46:Quincy, Illinois, U.S. A.	Said to be "made from choisest wheat."

SAMPLES OF BREAKFAST FOODS-Continued.

J. J. COS', IGAT, INSPECTO'1 Continued.

			Richt	LTS OF	Anal	YMIM.				
Additional Observations and Quotations from Label.	Total Proteids N 6 25.	Moisture.	Petrolic Ether Extract (Fat).	Alcohol Extract. (Sugars, &c.)	Water Extract (Dextrines).	Crude Fibre.	Total Ash.	Starch approximately by difference.	No. of Sample.	Remarks by Analyst. (Microscopical Examination.)
	p, c.	p. c.	p. c.	р. с.	p. c.	р. с.	p. e.	р. с.		
"Perfectly cooked; ready to eat at once."	11 00	7 20	0.16	4 56	13 92	2:60	2 28	58 28	31619	Starch granules all broken.
Fine grained; cooking recommended.	13:83	9 44	0 32	0.00	7:76	0.50	0 40	67:75	31620	Wheat starch.
"Thoroughly parched and sterilized; then scientifically combined with the natural digestive agent malt diastase."	15 · 31	6 76	0 60	6 72	10.08	1:10	1 24	58 19	31621	Wheat or barley starch; probably a mixture.
	15 87	9:52	1:00	2.80	7:17	1.45	1 36	60 83	31622	Wheat starch.
"The work of digestion already half done,"	13:38	8 00	0 84	2 76	11 68	2.50	2:08	58:76	31623	Starch granules al broken.
Flaked; "Thoroughly steam cooked. Ready to use."	13 25	7:48	0:52	0.44	14:84	1:90	1:40	60 17	31624	Starch granules much broken; apparently wheat.
A. E. SANDERSON	, ins	PECT	or.							

,	1	1	1					* * * * * * * * * * * * * * * * * * *
Cooking recommended. I package contains 2 lbs.	16:87	7:48	6.16	2.16	6.08	1.70	1:74 57 81	29391 Oat starch.
Cooking required; 1 package contains 28 oz.	14:00	9 52	0.76	0 00	7 · 20	0.45	0 32 67:75	29392 Wheat starch.
"Elle est toujours preparée et tou- jours delicieuse."	13.12	7.84	0 · 40	4:36	11.96	2:35	1.80 58 17	29393 Starch granules much broken; apparently wheat.
"Pure healthful syrups are used." 1 package contains 11 ozs.	13.81	6 92	1144	0.00	12:80:	2.15	2:28 60:60	29394 и "

RESULTS OF AN INSPECTION OF A COLLECTION

DISTRICT OF OTTAWA-

·					
				1166	T. ,
Date of Collection.	Nature of (Sample,	Name and Address of Vendor.		Quantity.	Name and Address of Manufacturer or Furnisher. From Inspector's Report.
1906	3.				
Nov.	15.Zest	28400 J. Currell, 86 Queen St. west, Ottawa.	3	11 .	30 Quaker Oats Co., Chi Marked, "Ready to est," and "made of the finest Pacific Coast white wheat" also "thoroughly cooked."
	19 Beaver Oats	32301 F.A. Scott, 292 Well-		11	25 P. McIntosh & Son, Beaver rolled
90	19 Quaker Puffed Rice,	32302 ington St., Ottawa	3	tr ,	Toronto 30 American Cereal Co., Chicago. Chicago.
	19 Gusto	32303 " "	3	# .	45 Pawnee Cereal Co., "Wheat food" Cedar Rapids, Iowa, U.S.A. DISTRICT OF KINGSTON—
Nov.	6 Canada Flakes	31015 James McCulla, Mon treal, St., Kingston		Ibe	. 45 Peterboro' Cereal Co., Made from Man- toha wheat.
**	6 Egg-O-Sec	31018 P. A. Haffner, Mon- treal, St., Kingston		11	45 Manufactured at Made from Quincy, Ill., U.S.A. choicest wheat.
14	6 Quaker Oats.,	31019 Vincent Oakley, Brock St., Kingston,		14	30 American Cereal Co., Rolled white Peterboro'.
10	7 MaltBreakfast Food.	31020 Wallbridge & Clarke, Bridge St., Bell ville.		**	60 The Malted Cereal Co., All the virtues Burlington, Vermont of malt; all the strength of wheat.
**	7 Quaker Corn Meal.	31021 " "	6	11	30 Quaker Oats Co., Chi (Yellow granulated) "It is made only of the crystal part of choice yellow corn."

OF SAMPLES OF BREAKFAST FOODS-Continued.

A. E SANDERSON, INSPECTOR Continued.

· ·					R	KHET	LT4	OF	A:	KALY	15EH.					
Additional Observations and Quotations from Label.	Tetal Proseids	ń ;	Moisture.	makes advantable of the state o	Petrolic Ether	Extract (Fat)	Alcohol Extract.	(Sugarr, de.)	Water Extract.	(Dextribes).	Crude Fibre.	Total Ash.	-	March approximately by difference.	No. of Mample.	Remarks by Analyst (Microscopical Exami nation).
	p.	e.	p. (C.	11.	c,	р.	C,	р.	e.	p. e.	p. c.		p. c.		a many tip
package contains 7 oza	12	75	7	### 	0	56	1	40	13	44	3 50	-	- 1	•	29400	Starch granules mucl broken; apparently wheat or barley.
ooking recommend-	16	87	6	52,	5	64	1	96	5	88	1:95;	1.7	765	50:42	32301	Oat starch,
ed. 'The wonderful invention of puffingrice cooks the starch granules so thoroughly that Quaker puffed rice in very largely a predigested food.' I package contains	10	94	7	80	0	12	0	00	22	586	0:70	0 (5-4	56:84	32302	Starch granules ver much broken.
7 oz. Wheat flakes ready to serve." 1 pack- age contains 17 oz.	13	25	6	56	1	12	3	44	12	00	3.30	2 (0-4	58 29	32303	Starch granules muc broken; apparentl wheat,
. HOGAN, INSPE	CT	OR														
						-	-						- ,			1
Serve cold or warm." 1 package contains 195 ozs.	12	56	7	84	1	00	4	32	13	36	2:40	2	56	55196	31015	Starch granules muc broken.
'Good to eat at any time.'	12	₩ 5-	8	04	0	00	2	20	12	48	1 70	110	48	61 45	31018	Starch granules muc broken; apparentl wheat starch,
	13	12:	7	60	5	08	3	44	ວິ	48	2 40	178	Š()	61:08	31019	Oat starch.
4	14	00	7	60	0	60	6	- 96	g	144	1 65	0.8	32	58 93	31020	Wheat or barle starch; probably mixture.
package contains 2 lbs, 15 ozs.	8	12	10	04	0	48	1	60	4	.88	1 60	0.5	20,	73108	31-21	Maize starch.
		,				J				1					1	
Proteids (bra Carbohydraic Fat Lignose and Ash (phospha	es (l cell	heat lulos	and	t the	≋h 	pre	e fo	ers)	77	63 7 00 1 75 2 73					

RESULTS OF AN INSPECTION OF A COLLECTION DISTRICT OF KINGSTON

				t is a	1,	
Date of Collection.	Nature of Sample.		and Address f Vendor.	Quantity.	Name and Address of Manufacturer or Furnisher.	From Inspector's Report.
1906,						
Nov 7	Orange Mear 3	1022 Wallbr Bridg ville.	idge & Clarke ge St., Bell	. 4 lbs	45 Frontenac Cereal Co. Kingston.	
11 g	Toasted Corn 3 Flakes.	1023 O. S.	Hicks, Fron Belleville.	t 1}	30 W. R. Kellogg, Battl Creek, Mich.	e Used and recom — mended by the Battle Cree I
. 7	Canada Flakes 3	1024]	11	4 "	45 Peterboro' Cereal Co.	Sanitorium. Made from Man- itoba wheat.
16	Cook's Flaked 30				20 American Rice Food	age form no human hand touchesCanada Flakes," I Madeticm Louis-
n 16	Kice. Quaker Puffed 30		st., Toronto.		Co., Matawan, N.J. 10 American Cereal Co.,	rice. "Only the very
0 21	Rice. Hornby's Oat- 30 to al.	241		1 .	Chicago, U.S.A.	best grade of rice is used. Process: Drying in fire kilns, impurities re-
						moved, steam cooking the kernels for several hours, therby convert- ing the starch into dextrine and drying by
- 21	Malted Food 30:	212	11	1 -	18 Malted Cereal Co.,	- superheated air
11 22.	Apitezo , , , , , 30;	244 Midland King :	i Bros., 128 st., Toronto.	3 . 1 scon fattis 18 oz	Burlington, Vt. 45 American Cereal Co., Chicago, U.S.	Claimed to be made of "grain combined with vegetable or plant iron."

OF SAMPLES OF BREAKFAST FOODS-Continued.

J. HOGAN, INSPECTOR Continued.

RESULTS OF ANALYSIS.

			2012//-							
Additional			_	÷:	ن					Remarks by Analyst
Observations and Quotations from Label.	Total Proteids N 6 15.	Moisture	Petrolic Ether Extract (Fat)	Alcohol Extract (Sugars, &c.)	Water Extract. (Devtrines).	Crude Pibre.	Total A-h.	Starch approve	No. of Sample.	(Microscopical Examination).
	p, e	р. с.	р. е.	p. c.	р. е.	р с.	р. е.	р. с.		
"Requires no cook- ing;all ready to eat."		7.52	0 24	5 60	11 28	2 35	2 28	59.79	3102:	Starch granules much broken; probably wheat.
Finely flaked. One prokage contains 4½ ozs.	7 88	6 08	0.64	5 00	17 48	2 60	1 16	59-16	31023	3 Starch granules much broken; apparently maize starch.
"The wheat is thor- oughly washed and scientifically—pre- pared by the latest improved—machin- ety."	10 06	7 72	1:00	2 68	12:20	2 25	1 96	62:13,	3102	4 Starch granules very much broken; pro- bably wheat.
4. AIDD, ACTING	INSP.	ECTO	R.							44
All of the wheat toasted, ready to eat, 1 package con- tains 7 ozs.		8 56	0 32	2 92	11 40	1:60	1:92	60-16	3022	0 Starch granules very much broken; pro- bably wheat.
"Don't cook"	11+62	8-84	0 00	0 00	6:24	0:75	0:40	72:15	3022	Starch granules very much broken; pro- bably rice.
"Thoroughly cooked and steralized."	12 37	8 30	0.00	0-00	14180	0.75	0.20) 63:08	3023	
"Steam cooked," but nevertheless direc- tions given for cooking.		7 80	6 (6	2:20	1:42	2:40	1:40	62:16	3024	II Oat starch.

12 37 7 28 0 52 7 96 9 80 1 20 1 06 59 81 30242 Wheat or barley; probably a mixture.
15 31 7 84 0 00 13 52 13 44 1 50 2 02 46 37 30244 Starch granules very much broken. The analysis on label cannot be sustained.

Analysis:		
Fat		0.39
Protein		19:00
 Dextrinized carbohydrates 	s and cellulose	54.67
Grape sugar		16 00
Ash		1.67
Moisture		8 11

RESULTS OF AN INSPECTION OF A COLLECTION OF

DISTRICT OF TORONTO-

				Cost.		
Date of Collection.	Nature of Sample.		d Address endor.	Quantity.	Name and Address of Manufacturer or Furnisher.	From Inspector's Report.
1968	i.				-	
	22 Norka ?	0245 Simpson & Yonge st	., Terento	l pkg. contain- ing 10 oz	15 Norka Food Co., Battle Creek, U.S.	''Cooked and malted oat food.'' 'The
11	22 Buckwheat 3 Flour.		"li	t	10 F. F. Dalley & Co., Hamilton.	Twentieth CenturyFood" "Selfraising Royal Hygien-
"	22 Malt Break 36 fast Food.		i		15 H. P. Eckart, wholesale grocer, Toronto.	whole wheat scientifically combined with the best barley
11	22 Hecker's Far- 30 ina.	248 T. Eaton & C st., Toroi	o., Yonge 3		30 Hecker, Jones & Jewell Milling Co., N.Y.	malt." Labelled as made from the heart of selected wheat.
	Mc * Store				DISTRICT	OF LONDON-
Nov.	2 Toy Guster 30	grocer, Ont.	Langlois, 1 Windsor,	42 ,	10 J. F. Smith, wholesale grocer, London, Ont.,	"For health, strength and
,	3 Hecker's Hom- 30 iny.		alconison, 1 Chatham,	e . ;	12 Hecker, Jones & Jewell' Co., N.Y.	good cheer."
*,	3 Grape Nuts 30	202 Edward O' grocer, S Ont.	Stratford,		45 Postum Cereal Co., Battle Creek, Mich.	by special treat- ment of wheat and barley, dex- trose and grape
**	3 Cereta Wheat 30 Food.	Stratiord,	Ont. 1	ozs.	30 Manufacturers of Qua- ker Oats,	"milled from the very choice- at part of the
76	5 Quaker Puffed 30 Rice.	204 Williams & Seaforth.	Purcell, 3 Ont.	pkgs	45 The American Cereal 1 Co., Chicago.	1902; Aug.and
T.	5 Pancake Flour 30	205 [†] A. G. Au forth, Ont	lt. Sea 3	** 1	45 Davis Milling Co., St., Joseph, U.S.	Jemimas Pan- cake flour for griddle cakes, muffins and gems. Made of wheat, corn
	5 Malta Vita 302	Henry Levi forth. Ont	ns, Sea 3	n . ;	30 Pure Food Co., Toronto I	and rice "

SAMPLES OF BREAKFAST FOODS—Continued.

T. KIDD, ACTING INSPRCTOR-Continued.

			Resu	LTS OF	Anali	SIS.		1		
Additional Observations and Quotations from Label.	Total Proteids. N × 6.25.	Moisture.	Petrolic Ether Extract (Fat).	Alcohol Extract. (Sugars, &c.)	Water Extract. (Dextrines).	Crude Fibre.	Total Ash.	Starch approxi- mately by dif- ference.	No. of Sample.	Remarks by Analyst. (Microscopical Examination).
, 	p. c.	р. с.	p. c.	р. с.	р. с.	р. с.	р. с.			
Ready to eat; heat before serving."	14.00	6 24	2.16	6.16	13.68	1.00	2 26	54:50	30245	1 66
'Always ready for immediate use."	7:31	9.60	0 40	2.56	6.88	1:00	4·28 2·46	67 97	30246	Buckwheat starch.
	11:37	7:68	0.08	6.96	9.24	1:50	1:48	61 - 65	30247	Wheator barley starch probably a mixture
	-									
		7.96	0.84	2:00	10.72	1.65	1:42	64.91	30196	Starch granules muc
Ready to serve	10.50	7 96								broken; probabl wheat starch.
Ready to serve	10.50	7 96				1.65				broken; probabl
Directions given for cooking. 'Don't try to cook this food. It is perfectly cooked at the factory. Serve dry just as it comes from	10·50 8·75 10·94	10:00	0.84		5.00	1.00	0.50	73:41	30199	broken; probabl wheat starch. Maize starch.
Ready to serve Directions given for cooking. 'Don't try to cook this food. It is perfectly cooked at the factory. Serve dry just as it comes from the package."	10·50 8·75 10·94	10 00 4 72	0 40	0°80 14°96	5·90 31·84	1.00	0.50	73·41 34·38	30199 30202	broken; probabl wheat starch. Maize starch. Starch granules ver
Directions given for cooking. 'Don't try to cook this food. It is perfectly cooked at the factory. Serve dry justas it comes from the package."	10·50 8·75 10·94	10:00 4:72 9:44	0·84 0 40 0 36	0.80	5·90 31·84	1·00 1·70 1·05	0.20	73 · 41 34 · 38 72 · 71	30199 30202 30203	broken; probabl wheat starch. Maize starch. Starch granules ver much broken. Wheat starch Starch granules much broken; probabl
'Don't try to cook this food. It is per- fectly cooked at the factory. Serve dry just as it comes from the package." Directions given for	10·50 8·75 10·94 10·50 11·35	10:00 4:72 9:44 9:20	0·84 0 40 0 36	0:80 14:96 0:00	5:00 31:84 5:48	1·00 1·70 1·05	0°20 1°06 0°46	73·41 34·38 72·71 61·33	30199 30202 30203 30204	wheat starch. Maize starch. Starch granules ver much broken.

RESULTS OF AN INSPECTION OF A COLLECTION OF

DISTRICT OF LONDON-

		r.	Cost				
From Inspector's Report.	Name and Address of Manufacturer or Furnisher.	Cents.	Quantity.	Name and Address of Vendor.	No. of Sample,	Nature of Sample.	Date of Collection.
							1906.
natural foo for creatin	Force FoodCo., Buffalo, N. Y.	15 F	1 pkgs,	Charles Andrew, Senforth, Ont.	30207	Force	Nov 6 1
-	DISTRICT OF	15 M	l lb	Coates & Co., Bran-1	25911 (Malta Vita	Sev 8 M
ing waste maintainin energy." MANITOBA	Malta Vita Pure Food Co., Battle Creek, Mich.	15 T	2 14	Coates & Co., Brandon, Man. A. Hendry, Winniger, Man.	25915	⊋uaker Oats	⊕ 12 G
ing waste maintainin energy." MANITOBA- In bulk	5 Malta Vita Pure Food Co., Battle Creek, Mich. 5 The American Cereal Co., Peterboro', Ont. 5 The American Cereal	15 TI		A. Hendry, Winni- peg, Man. Sutherland Bros and 1	25915 . 25916 8	⊋uaker Oats	12 Q
ing waste maintainin energy." MANITOBA- In bulk	5 Malta Vita Pure Food Co., Battle Creek, Mich. 5 The American Cereal Co., Peterboro', Ont. 5 The American Cereal Co., Chicago. 6 Peterboro', Cereal Co., Peterboro', Ont.	15 Ti 15 Ti 10 Pe		don, Man. A. Hendry, Winni- 1 peg, Man. Sutherland Bros - 1 Gillies & Frances - 1	25915 : 25916 8 25917 (∤uaker Oats 'uffed Rice Janada Flakes	12 Q
ing waste maintainin energy." MANITOBA- In bulk	5 Malta Vita Pure Food Co., Battle Creek, Mich. 5 The American Cereal Co., Peterboro', Ont. The American Cereal Co., Chicago.	15 T) 15 T) 10 Pe 20 T)		A. Hendry, Winni- peg, Man. Sutherland Bros and 1	25915 : 25916 8 25917 (25918 F	Quaker Oats Puffed Rice Lanada Flakes Petit John's Breakfast	12 Q
ing waste maintainin energy." MANITOBA- In bulk	Malta Vita Pure Food Co., Battle Creek, Mich. The American Cereal Co., Peterboro', Ont. The American Cereal Co., Chicago. Peterboro' Cereal Co., Peterboro', Ont. The American Cereal Co., Chicago. Postum Cereal Co.	15 T) 15 T) 10 Pe 20 T)		don, Man. A. Hendry, Winnister, Man. Sutherland Bros and Gillies & Frances and I. Kennedy & Seeney, I. Winnipes, Man. D. A. Ritchie and I.	25915 : 25916 8 25917 (25918 F 25919 I	Quaker Oats Puffed Rice Zanada Flakes Petit John's Breakfast Food. Grape Nut	 12 Q 12 P 12 C 16 P 16 G
ing waste maintainin energy." MANITOBA- In bulk	Malta Vita Pure Food Co., Battle Creek, Mich. The American Cereal Co., Peterboro', Ont. The American Cereal Co., Chicago. Peterboro' Cereal Co., Peterboro', Ont. The American Cereal Co., Chicago.	15 T) 15 T) 10 Pe 20 T) 15 Pc		don, Man. A. Hendry, Winni- ; peg, Man. Sutherland Bros	25915 : 25916 8 25917 (25918 F 25919 I	Quaker Oats Puffed Rice Zanada Flakes Petit John's Breakfast Food. Grape Nut	 12 Q 12 P 12 C 16 P 16 G

DISTRICT OF BRITISH COLUMBIA

Nov. 14 Farce 32009 E. H. McMillan, 3 p Granville St., Van- couver, B.C.	kgs 45 The Force Food Co., It is stated that in "Force, the whole of the wheat is scientifically combined with bar-ley malt."
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SAMPLES OF BREAKFAST FOODS -Concluded.

T. KIDD, INSPECTOR Continued.

	RESULTS OF ANALYSIS.									
Additional Observations and Quotations from Label.	Total Proteids N 6 25.	Moisture.	Petrolic Ether Extract (Fat).	Alcohol Extract (Sugars &c.)	Water Extract. (Dextrines).	Crude Fibre.	Total Ash.	Starch approxi- mately by dif- ference.	No. of Sample.	Remarks by Analyst (Microscopical Examination).
'Serve cold; no cook- ing required; toast before serving, no sugar required."	p.c. 10 94	p.e. 8 44	p.c. 0.96	p.c. 0°84	p.c.	p.c. 2·48	p.c. 1·52	р.с. 63°18	30207	Starch granules muc broken; apparentl wheat.

W. M. CONKLIN, INSPECTOR.

	10:50	7:44	0.00	1.80	14.40	1.65	1.62	62:59	25911 Starch granules very much broken.
	14:00	7:65	5:20	1:80	5:16	1.95	1.28	62.96	25915 Oat starch.
	8 31	8:24	0.00	0.00	20.80	0.75	1:00	60:90	25916 Starch granules all broken.
	11:37	7:04	0.32	1.92	13:44	1/50	2.00	62 41	25917 Starch granules very much broken.
44646640))	9.62	7:68	0.48	2:40	7:72	1.25	1 42	59.43	25918 Wheat or barley starch; probably wheat.
	11:73	5.76	0.40	16:48	27:76	0.85	1.26	35 76	25919 Starch granules much broken.
	11:73	7 24	0.00	8:08	8.72	0.20	1.64	62.09	25920 Wheat or barley; pro- bably a mixture of both.
	8:75	8:02	0.15	0.00	16:04	1 45	0.84	64 78	25914 Starch granules much broken; a few gran ules characteristic of rice.

-E. B. PARKINSON, INSPECTOR.

'Force is food with the idigestible parts left out." 'The arrarative ages. ity with other is Force 15 to 30 mins., oats, rolled 30 to 60 mins., wheat, rolled 1 to 3 hrs., hominy (gran.) 1 to 3 hrs."	8:48 0:48	3 72 11 28	1:60 2:08	60-99 320	509 Starch granules much broken.
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RESULTS OF AN INSPECTION OF A COLLECTION

DISTRICT OF BRITISH COLUMBIA

	1	-				1223		THICK OF BAILI	SH COLUMBIA
					(Cost	r.		
Date of Collection	Date of Collection. Sample.	No. of Sample.	ame and Address of Vendor.		Quantity.		Cents.	Name and Addres of Manufacturer or Furnisher.	From Inspector's Report.
1906,							-		
		V	H. Walsh, Sey nour St., Vancou er, B.C.			!	15	The Twin City Nut Food Co., Minneapo- lis, St. Paul, Minne- sota, U.S.A.	"a scientific combination of thoroughly malted and cooked cere-
. 9	Orange Meat,	V	bster Bros., Gran- ille St., Vancou- er, B.C.	3	**		40 '	The Frontenac Cereal Co., Ltd., Kingston, Ont.	"Crange Meat is scientifically prepared, thor- oughly cooked
		G	F. McCready, ranville St., Van- over, B.C.		"		45 7	The Postum Cercal Co., Ltd., Battle Creek, Mich., U.S.	and absolutely digestible." This is said to be fully cooked, pre-digested dextrose and grape sugar, made by special treatment of entire wheat
		CO	n G. Kirkwood, ranville St., Van- uver, B.C.		11		15 7	The Lake of the Woods Milling Co., Kewatin	and barley."
101	Farina	28193 Hud ta	lson's Bay Co., re- il, Granville St., ancouver, B.C.	3	n ,		40 8	perry Flour Co., 114, 116 Sacremento St., San Francisco.	particularly
. 12	Malted Cereal.	28195 Kell Lt	y, Douglas Co., id., Water St., ancouver, B.C.	3			45 I		adapted for children." It is stated that this food "is subjected to a high degree of heat, and con- tains elements which produce
12 1	Breakfast Food	Ce	W. H. Malkin L., Ltd., Water St. ancouver, B.C.	3			55 A	come Mills Co., Port- land, Oregon, for Pu- rina Mills, St. Louis, Mo.	a natural pre- digested food." "Made from se- lected wheat, rich in gluten."

OF SAMPLES OF BREAKFAST FOODS-Continued.

-E. B. PARKINSON, INSPECTOR-Continued.

		*	RESU	LTS OF	ANALY	sis.		*		Remarks by Analyst, (Micro- scopical Exami- nations.)
Additional Observations and Quotations from Label.	Total Proteids N × 6.25.	Moisture.	Petrolic Ether Extract (Fat).	Alcohol Extract. (Sugars, &c.)	Water Extract (Dextrines).	Crude Fibre.	Total Ash.	Starch approximately by difference.	No. of Sample.	
	р. с.	р́. с.	р. с.	p. c.	р. с.	р. с.	р. с.	p. c.		
Labelled "Do not cook."	14:00	7:44	0.24	6.48	18:72	0.80	1:30	51 02	28188	Starch granules much broken.
'Requires no cooking all ready to eat."	11.37	8.00	0.28	7:01	12.16	1.20	1:80	57 85	28189	Starch granules much broken; apparently wheat starch.
"The system will absorb a greater amount of nourishment from 1 lb. grape nuts than from 10 lbs meat, wheat, oats or bread."	11.67	5:00	0.00	15:68	27:84	1.00	1 · 42	37 · 39	28190	Starch granules much broken.
,	11.06	9.84	0.00	0.16	5.56	0.60	1.08	71.70	28191	Wheat starch.
Directions given for cooking.	8.31	9.00	0.00	0.00	6.40	1.15	0.68	74 46	28193	Wheat starch.
It is so perfectly pre- pared that it needs no further cooking and can be eaten dry.		6:72	0.64	10.40	20:00	0:35	1.00	51.72	28190	Wheat or barley.
Directions given for cooking.	13 25	9:44	0.00	2.40	6.00	1.25	1.2	66:38	2819	6 Wheat starch.